

VERMONT CONSTRUCTION SPECIFICATION

ESTABLISHING PERMANENT VEGETATION ON STREAMBANKS

Establishing permanent vegetative cover on regraded streambanks following riprap work or on disturbed areas along the top of the bank, and establishing temporary vegetative cover in bioengineering applications.

Specifications

1. Site Preparation: Where possible, shape and smooth land to a 1.5:1 slope (1.5 horizontal feet for 1 vertical foot) or flatter. In the flatter disturbed areas place a cap of topsoil on top (3 - 4 in. is adequate). Topsoil will greatly enhance the seeding efforts. Exclude livestock and remove all large stones and other debris.
2. Fertilization: Apply fertilizer and lime according to soil test recommendations. In lieu of soil test, fertilize with 500 lb./acre (11.5 lb./1000 sq. ft.) of 10-20-20. Where possible, incorporate lime and fertilizer into the top 2 inches of soil.
3. Seeding procedures: Seed using one of the mixtures listed below:

A. UNMOWED CONDITION

1. Temporary Vegetation for Bioengineering Applications:

Seed	Lb./Ac.	Lb./1000 Sq. Ft.	Soil Drainage
Annual ryegrass	20	.50	Well to somewhat poorly

2. Temporary Vegetation for All Other Applications:

Seed	Lb./Ac.	Lb./1000 Sq. Ft.	Soil Drainage
Creeping red fescue	20	.50	Well to
Tall fescue	20	.50	moderately
Birdsfoot trefoil	8	.20	well
Creeping red fescue	20	.50	Well to
Redtop	2	.10	moderately
Birdsfoot trefoil	8	.20	well
Tall fescue	20	.50	Moderately
Reed canarygrass	10	.25	well to
Redtop	3	.10	poorly
Creeping red fescue	20	.45	Excessively
Redtop	2	.10	to moderately
Crownvetch	15	.33	well

B. RECOMMENDED VARIETIES

Annual ryegrass Common
Birdsfoot trefoil Empire
Creeping red fescue Ensylva
Crownvetch Penngift/Chemung
Redtop Common
Tall fescue Ky-31

Cover grass and/or legume seed with 1/4 inch of soil unless a hydroseeder is used. Many failures result from poor seed-soil contact. Cultipacking or tracking the site with a dozer will improve the speed and uniformity of germination.

Inoculate legume seed (birdsfoot trefoil, crownvetch) at two times the rate prescribed by seed dealer immediately prior to the seeding; four times if hydroseeded.

4. Time of Seeding: Early spring until June 1 and from August 15 to September 15. After September 15, use a temporary seeding of winter rye or wheat. Do not seed after October 15; apply a heavy layer of mulch instead.
5. Mulching: Mulching is critical. Use a minimum of 50 lb. per 1000 sq. ft. or 1 - 2 tons per acre of straw or hay. Weed free mulch should be used.